February 1  **Professor Oleg V. Prezhdo**, Department of Chemistry, University of Rochester  
*Quantum Dots – Artificial Atoms, Molecules, or Small Pieces of Bulk? Insights from Time-Domain Ab initio Simulations*

February 8  **Professor Laura Gagliardi**, Department of Chemistry, University of Minnesota  
*Bridging the Gap Between Quantum Chemistry and Classical Simulations for CO₂ Capture*

February 15  **Professor Emily A. Weiss**, Department of Chemistry, Northwestern University  
*A Multiplexed Charge Transfer Complex of a PbS Quantum Dot and TCNQ*

April 5  **Professor Mas Subramanian**, Department of Chemistry, Oregon State University  
*Discovering New Functional Metal Oxides: Expecting the Unexpected*

April 12  **Professor Claudia Turro**, Dept. of Chemistry, The Ohio State University  
*Control of Excited States of Transition Metal Complexes for Biological Applications*

April 19  **Professor Hung-wen (Ben) Liu**, Dept. of Chemistry & Biochemistry, The University of Texas at Austin  
*Exploring Nature’s Strategies for Making Unusual Sugars: Biosynthesis of 2-Thiogluconic Acid in BE-75854*

**Monday, April 22, 2013 – 5th Annual Howard Tieckelmann Lecture Series**  
4:00-5:30 PM in 201 Natural Sciences Complex  

**Guest Lecturer: Professor Richard N. Zare**  
Department of Chemistry, Stanford University, Stanford, CA  
“Desorption Electrospray Ionization for Imaging and for Detection of Reaction Intermediates”

April 26  **Professor Karl T. Mueller**, Department of Chemistry, Penn State University  
*A Combined Attack on Problems in Environmental and Materials Sciences Using Solid-State NMR and Computational Chemistry*